Imagery Intelligence
(IMINT)
## Special Mission Product Line

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<th>G36</th>
<th>G58</th>
<th>C90</th>
<th>250</th>
<th>350</th>
<th>P1A</th>
<th>900XP</th>
<th>4000</th>
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<tbody>
<tr>
<td><strong>Aerial Survey</strong></td>
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<td><strong>Training</strong></td>
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<td><strong>Utility/Transport</strong></td>
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International Traffic in Arms Regulations

- The EO/IR Sensor and therefore the EO/IR installation in the airplane is controlled by the U.S. Government State Department and hence export of the equipped (or provisioned) aircraft is regulated under the ITARs.

- The Data Link, Recorder, Ground Station, etc. shown in this briefing are commercially available and exported under the U.S. Dept of Commerce (not ITAR controlled). Other data link systems available in the market may be ITAR controlled.

- While dome of the equipment described in this briefing is ITAR controlled, this briefing itself is NOT ITAR controlled, i.e., it does not contain “technical data” as defined in the ITAR regulations.
Universal Surveillance System

Electro-Optic/Infrared
- Autotrack
- Laser Rangefinder
- Geo-Pointing

Imagery Recorder

Microwave Data Link
- Streaming Video
- Voice Downlink

Ground Station
- HBC Installed in Customer Vehicle
Doors Secure the Sensor

Exterior Doors Close Providing Camera Security
Sensor Operator Console

SOC Includes:

- Audio
- Sensor Monitor
- Camera Controls
- Recorder
Repeating Monitor in Cockpit

EO/IR Imagery can now be displayed on MFD
Camera Pressure Box – Clean Installation

• Toilet Moves to Aft Pressure Bulkhead

• Camera Pressure Box Does Not Interfere with Seats
Data Link Ground Receiver

• Turn-key Solution
  ➢ HBC Provided & Installed Data Link Equipment in Customer Furnished Land Rover Defender

• 10 meter Hydraulic Mast

• Mobile Tracking Antenna
  ➢ Automatically Tracks Aircraft Using GPS Data
  ➢ Auto-Search Function
  ➢ Self Calibrating
  ➢ Secondary “Up-Look” Antenna for Overhead Coverage
  ➢ Compact Size

• Data Link Demonstrated Beyond 40 km.
Installed Performance

Aircraft Make: Hawker Beechcraft
Aircraft Model: B200GT
Aircraft Serial Number: BY-19

SECTION 4 – PERFORMANCE

No change.

No measurable performance penalty

It Flies Like A King Air!
Suitable for All King Air Models

This installation has been completed in a King Air B200GT.
It is compatible with all King Air models: G-90GT, B200GT, 350 & 350ER
Typical Installation in 350 or 350ER

- **Operator Console:**
  - EO/IR Monitor
  - EO/IR Sensor Control
  - Data Link
  - Recorder

- **Toilet Relocated to Aft Pressure Bulkhead**

- **EO/IR Retract**

- **EO/IR Extended**
### Installed Performance

<table>
<thead>
<tr>
<th>Mission Altitude</th>
<th>Time On Station (TOS)</th>
<th>Total Flight Time (TFT)</th>
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</thead>
<tbody>
<tr>
<td>15,000 ft.</td>
<td>4.1 / 5.3</td>
<td>5.9 / 7.2</td>
</tr>
<tr>
<td>10,000 ft.</td>
<td>3.6 / 4.9</td>
<td>5.5 / 6.8</td>
</tr>
<tr>
<td>5,000 ft.</td>
<td>3.2 / 4.6</td>
<td>5.0 / 6.3</td>
</tr>
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</table>

**45 Minute Fuel Res**

**100 nm Taxi**

**100 nm Takeoff**

**100 nm Land**

**100 nm Taxi**

**B200GT**

**350**

**350ER**
Why A Manned Platform?

- UAVs are Great for High Threat Environment – but have limitations.
- Advantages of Manned Platforms:
  
  ➢ **Strategic Surveillance** - EO/IR is a Great Tactical Sensor - but Human Eyes Are Better “Strategic” Sensors.

  ➢ **Not Tethered to Theater** – Manned Aircraft Can Operate without Data Link Tether.

  ➢ **More Operational Flexibility** - Flexible to Change Tactics in the Middle of a Mission.

  ➢ **Higher Mission Readiness** – Manned Aircraft Can Operate Partially Mission Capable.
Data Links

Two Types of Data Links Are Available

- **Line-of-Sight (LOS) – Tactical System**
  - Omni: short range to 25 nm
  - Steerable Antenna: to 75 nm

- **Beyond LOS – Strategic System**
  - Single Images (Satellite Radio)
  - Streaming Video – Can Be Expensive
King Air is a Cost Effective Surveillance
Imagery Intelligence (IMINT)